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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/472,534	12/27/1999	ANTHONY MAZZURCO	036560.6630	8878
24587	7590	06/27/2005	EXAMINER	
ALCATEL USA INTELLECTUAL PROPERTY DEPARTMENT 3400 W. PLANO PARKWAY, MS LEGL2 PLANO, TX 75075			JAGANNATHAN, MELANIE	
			ART UNIT	PAPER NUMBER
			2666	

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/472,534

Applicant(s)

MAZZURCO ET AL.

Examiner

Melanie Jagannathan

Art Unit

2666

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 16-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 16-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 16-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Richardson US 5,479,608.

Regarding claims 16-21, 25-26, the claimed receiving one or more working channels and at least one protection channel at an input interface to transmission switch is disclosed by two digital cross-connects (Figure 1, elements 2A, 2B) connected with working paths (elements 41-4n) and protection path (element P). The claimed performing a selection at the input interface between the working and protection channels in response to signal quality is disclosed by if signal failure is detected on one of working paths (Figures 3a, 3b, 3c, element 4_{1BA}) at port MA11, the protection path may be used (P_{BA}). The claimed switching the selected ones of working and protection channels through one or more predetermined matrix connections where the matrix connections are not disrupted is disclosed by in light of a signal failure at member input port MA11, signal is bridged from head port B1I to both member input port MB10 and protection output port PBO. Thus a valid signal is being received at node A via protection path P_{BA} and routed to head output port A10 in same manner as normal function but failure is avoided. Furthermore, the signal is still being provided by node B over both protection path and also member path 4 and is still received at input port MA11. Examiner believes

Art Unit: 2666

this teaches idea of non-disruption of matrix connections. See column 10, lines 43-67, column 11, lines 1-32 and Figures 3b, 3c. Also see column 6, lines 7-55, column 7, lines 1-60, column 8, lines 48-67, column 9, lines 1-63, and columns 10-11.

Regarding claim 22, the claimed 1:1 linear automatic protection scheme is disclosed by 1:1 redundancy scheme. See columns 1-2, column 14, lines 41-54.

Regarding claims 23-24, the claimed receiving at least one inbound working channel and at least one in bound protection channel and providing at least one outbound working channel and at least one outbound protection channel is disclosed by working paths and protection path between two cross-connects (See Figure 1). The claimed switching and routing information on inbound working channel to outbound protection channel and routing information on inbound protection channel to outbound working channel at an input/output interface w/o disrupting matrix connections is disclosed by if signal failure is detected on one of inbound working paths by node A, node B responds by routing on outbound protection path Pb. See Figures 3b-3e and column 6, lines 7-55, column 7, lines 1-60, column 8, lines 48-67, column 9, lines 1-63, columns 10-11.

Response to Arguments

3. Applicant's arguments filed 4/11/2005 have been fully considered but they are not persuasive. Applicant argues with respect to claims 16, 17-22, 23-26, reference Richardson fails to disclose recitation pertaining to predetermined matrix connections not disrupted due to selection between working and protection channels due to line failure. Examiner contends Richardson discloses two cross connect switches (Figure 1, elements 2A, 2B) where the protected group includes working paths and protection path between

Art Unit: 2666

MA1-MA_n and MB1-MB_n ports. Applicant refers to passage in Richardson at column 10, lines 43-45 where it states if a valid signal is at head port B1I then node B effects third stage bridge to pass signal. Applicant cites this to show Richardson does not disclose not disrupting matrix connections. Examiner regrets not providing a more precise citation of teaching of limitation in Richardson and an explanation follows.

Examiner believes Figures 3b and 3c show that in light of a signal failure at member input port MA11, signal is bridged from head port B1I to both member input port MB10 and protection output port PBO. Thus a valid signal is being received at node A via protection path PBA and routed to head output port A10 in same manner as normal function but failure is avoided. Furthermore, the signal is still being provided by node B over both protection path PBA and also member path 4 and is still received at input port MA11. Examiner believes this teaches idea of non-disruption of matrix connections. Please see column 10, lines 43-67, column 11, lines 1-32 and Figures 3b, 3c. Therefore, rejection is maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 2666

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Jagannathan whose telephone number is 571-272-3163. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJ



FRANK DUONG
PRIMARY EXAMINER